



GOOD OLD AI
RESEARCH NETWORK

Paperista: Visual Exploration of Semantically Annotated Research Papers

Nikola Milikic, Uros Krcadinac, Jelena
Jovanovic, Bojan Brankov, Srdjan Keca



- URL: www.uzrok.com/paperista



1. Identifying paper topics
2. Calculating significance of topics
3. Filtering out alien and generic topics



- We used Wikipedia (DBpedia) based semantic annotators on paper title and abstract:
 - TAGME



- Term Frequency – Inverse Document Frequency (TF-IDF) - reflects how important a word is to a document in a collection or corpus
- TF-IDF has been modified to calculate significance of a topic in LAK 2013 dataset papers' topics

3. Filtering out alien and generic topics



- Calculating relatedness between topics using Wikipedia Miner tool

Alien topics

- example: *Henry Snapp* instead of *Snapp tool*

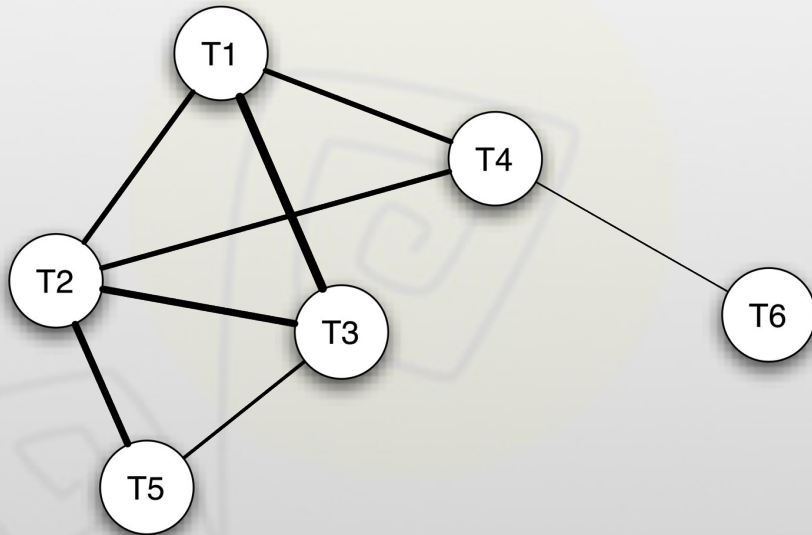


Fig. 1. Not many relationships

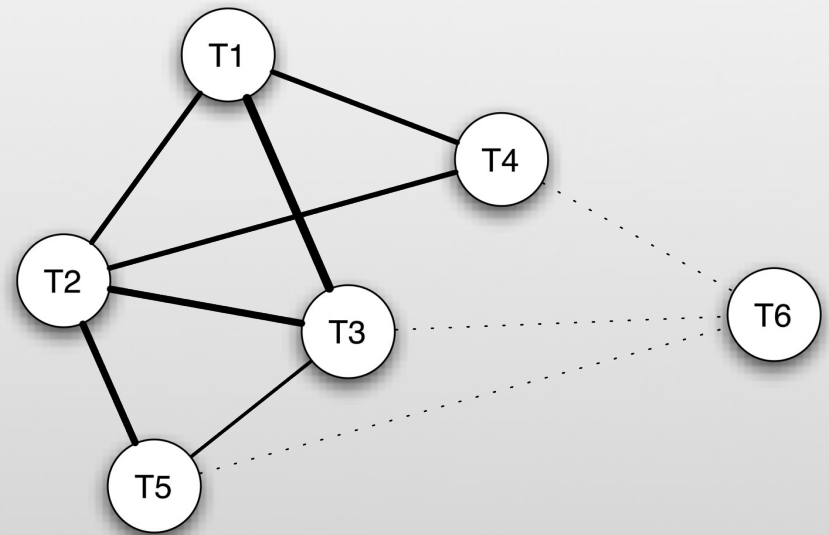


Fig. 2. Weak relationships

3. Filtering out alien and generic topics



Generic topics

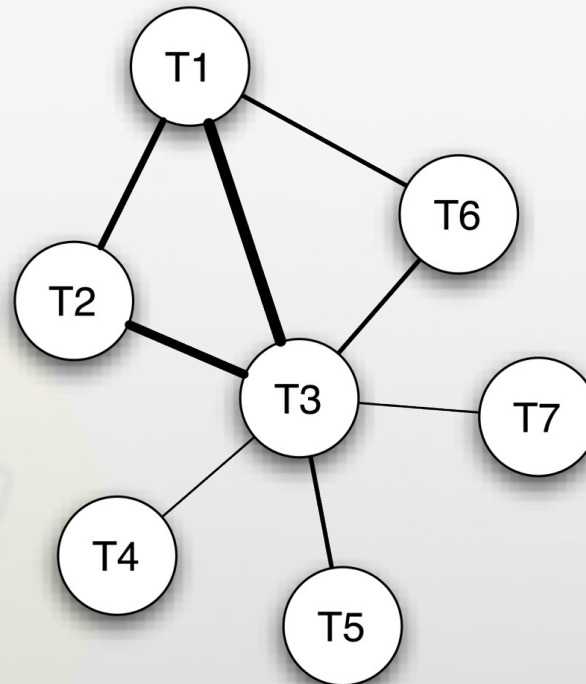


Fig. 3. Related with many other topics



GOOD OLD AI
RESEARCH NETWORK

Nikola Milikic
University of Belgrade, Serbia

nikola.milikic@gmail.com